## Exhibit A

## Clean Version of The Pending Claims in U.S. Patent Application Ser. No. 09/691,343

- 4. (Original) An isolated nucleic acid molecule comprising at least 24 contiguous bases of nucleotide sequence first disclosed in the NHP gene described in SEQ ID NO:6.
- 5. (Previously Presented) An isolated nucleic acid molecule comprising a nucleotide sequence that:
  - (a) encodes the amino acid sequence shown in SEQ ID NO:7; and
  - (b) hybridizes to the nucleotide sequence of SEQ ID NO:6 or the complement thereof under highly stringent conditions of 0.5 M NaHPO<sub>4</sub>, 7% sodium dodecyl sulfate (SDS) and 1 mM EDTA at 65°C and washing in 0.1x SSC/0.1%SDS at 68°C.
- 6. (Original) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO:7.
- 7. (Previously Presented) A recombinant expression vector comprising the isolated nucleic acid molecule of claim 4.
  - 8. (Previously Presented) A host cell comprising the recombinant expression vector of claim 7.
- 9. (Previously Presented) The isolated nucleic acid molecule of claim 4, comprising the nucleic acid sequence of SEQ ID NO:6.
- 10. (Previously Presented) The recombinant expression vector of claim 7, wherein said nucleic acid molecule encodes the amino acid sequence shown in SEQ ID NO:7.
- 11. (Previously Presented) The recombinant expression vector of claim 10, wherein said nucleic acid molecule comprises the nucleic acid sequence of SEQ ID NO:6.



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Li X, Ponten A, Aase K, Karlsson L, Abramsson A, Uutela M, Backstrom G, Hellstrom M, Bostrom H, Li H, Soriano P, Betsholtz C, Heldin CH, Alitalo K, Ostman A, Eriksson U.

Ludwig Institute for Cancer Research, Stockholm, Sweden.

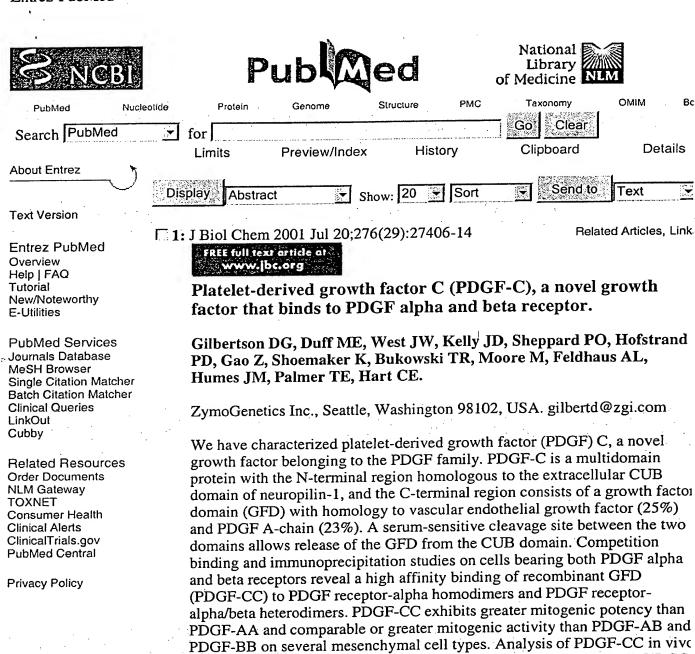
Platelet-derived growth factors (PDGFs) are important in many types of mesenchymal cell. Here we identify a new PDGF, PDGF-C, which binds to and activates the PDGF alpha-receptor. PDGF-C is activated by proteolysis and induces proliferation of fibroblasts when overexpressed in transgenic mice. In situ hybridization analysis in the murine embryonic kidney shows preferential expression of PDGF-C messenger RNA in the metanephric mesenchyme during epithelial conversion. Analysis of kidneys lacking the PDGF alpha-receptor shows selective loss of mesenchymal cells adjacent to sites of expression of PDGF-C mRNA; this is not found in kidneys from animals lacking PDGF-A or both PDGF-A and PDGF-B, indicating that PDGF-C may have a unique function.

PMID: 10806482 [PubMed - indexed for MEDLINE]

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PMID: 11297552 [PubMed - indexed for MEDLINE]

systems with a binding pattern similar to PDGF-AB.

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in a diabetic mouse model of delayed wound healing showed that PDGF-CC significantly enhanced repair of a full-thickness skin excision. Together, these studies describe a third member of the PDGF family (PDGF-C) as a potent mitogen for cells of mesenchymal origin in vitro and in vivo

Write to the Help Desk NCBI | NLM | NIH Score = 486 bits (1237), Expect = e-135
Identities = 234/234 (100%), Positives = 234/234 (100%)
Frame = +3

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  mRNA, complete cds

  Length = 1804

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AUTHORS	Li, X., Ponten, A., Aase, K., Karlsson, L., Abramsson, A., Uutela, M., Backstrom, G., Hellstrom, M., Bostrom, H., Li, H., Soriano, P.,	
	Betsholtz,C., Heldin,C.H., Alitalo,K., Ostman,A. and Eriksson,U.	
TITLE	PDGF-C is a new protease-activated ligand for the PDGF	
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JOURNAL MEDITAL	Nat. Cell Biol. 2 (5), 302-309 (2000)	
MEDLINE	<u>20268201</u> 10806482	
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AUTHORS	Hamada, T., Ui-Tei, K. and Miyata, Y.	
TITLE	A novel gene derived from developing spinal cords, SCDGF, is a	
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JOURNAL	FEBS Lett. 475 (2), 97-102 (2000)	
MEDLINE	20317014	
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REFERENCE	3 (bases 1 to 3007)	
AUTHORS	Tsai, Y.J., Lee, R.K., Lin, S.P. and Chen, Y.H.	
TITLE	Identification of a novel platelet-derived growth factor-like gene,	
TOTTO 17 T	fallotein, in the human reproductive tract Biochim. Biophys. Acta 1492 (1), 196-202 (2000)	
JOURNAL	20461776	
MEDLINE PUBMED	11004490	
REFERENCE	4 (bases 1 to 3007)	
AUTHORS	Zwerner J. P. and Mav. W. A.	
TITLE	PDGF-C is an EWS/FLI induced transforming growth factor in Ewing	
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JOURNAL	Oncogene 20 (5), 626-633 (2001)	
MEDLINE	<u>21214457</u>	
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REFERENCE	5 (bases 1 to 3007)	
AUTHORS	Uutela, M., Lauren, J., Bergsten, E., Li, X., Horelli-Kuitunen, N.,	
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TITLE	patterns of the human PDGFC and PDGFC genes	
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            Platelet-derived growth factor C (PDGF-C), a novel growth factor
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            that binds to PDGF alpha and beta receptor
            J. Biol. Chem. 276 (29), 27406-27414 (2001)
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            11297552
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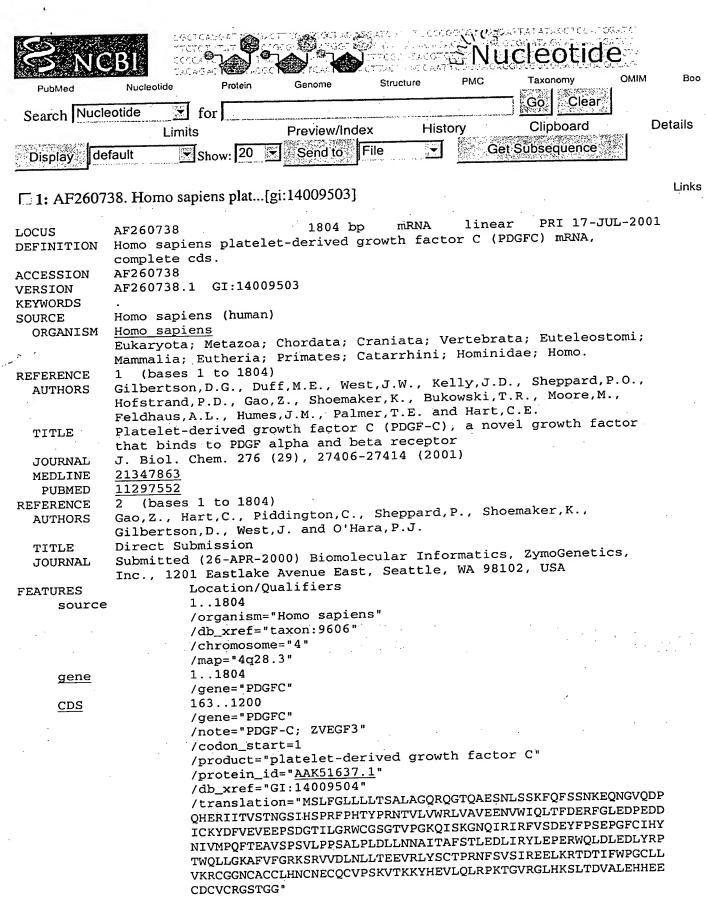
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Revised: July 5, 2002.

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Revised: July 5, 2002.

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Identification of a novel platelet-derived growth factor-like gene, fallotein, in the human reproductive tract.

Tsai YJ, Lee RK, Lin SP, Chen YH.

Division of Reproduction and Endocrinolgy, Department of Medical Research, Mackay Memorial Hospital, Tamshui, Taiwan. yitsai@ms1.mmh.org.tw

We isolated the cDNA of a novel platelet-derived growth factor-like gene from human endometrium. The gene was named fallotein; it was 3007 bases in length, and encoded a protein of 345 amino acids. Antiserum against the fallotein protein can recognize a specific protein in the fallopian tube, with a molecular size in accordance with the anticipated size of fallotein. Fallotein mRNA is expressed in two molecular sizes, 3.8 and 2.9 kb, with the former being more abundant. High expression of the gene was found in the prostate, testis, and uterus. A weaker expression signal was found in the spleen, thymus, and small intestine, but expression of fallotein in the colon and peripheral blood leukocytes was negligible.

PMID: 11004490 [PubMed - indexed for MEDLINE]

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>AF091434 ACCESSION:AF091434 NID: gi 6002592 gb AF091434.1 AF091434

Homo sapiens secretory growth factor-like protein
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TITLE	Identification of a novel platelet-derived growth lactor-like gene,
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JOURNAL MEDLINE	20461776
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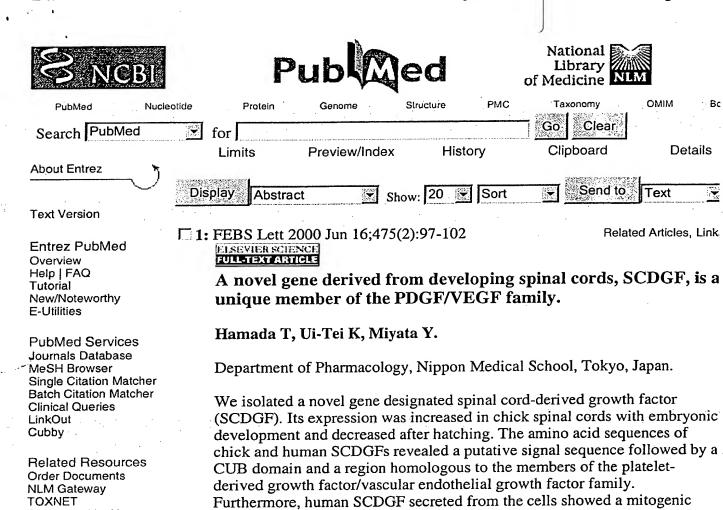
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activity for 10T1/2 cells in vitro. These results led us to speculate that SCDGF plays an important role in the development of the spinal cord. PMID: 10858496 [PubMed - indexed for MEDLINE]

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  JOURNAL
            Department of Pharmacology; 1-1-5, Sendagi, Bunkyo-ku, Tokyo
             113-8602, Japan (E-mail:t-hamada@nms.ac.jp,
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Revised: July 5, 2002.

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Sbjct: 115222 tgtggttctggtactgtaccaggaaaacagatttctaaaggaaatcaaattaggataaga 115163

Query: 430 tttgtatctgatgaatattttccttctgaaccagggttctgcatccactacaacattgtc 489

Sbjct: 115162 tttgtatctgatgaatattttccttctgaaccagggttctgcatccactacaacattgtc 115103

Query: 490 atgcca 495

Sbjct: 115102 atgcca 115097

>AC093325.3.1.130754 Length = 130754

Score = 236 bits (119), Expect = 2e-59
Identities = 119/119 (100%)
Strand = Plus / Minus

Query: 1 atgagectettegggetteteetgetgacatetgeeetggeeggeeagagacaggggaet 60

Sbjct: 80211 atgageetettegggetteteetgetgacatetgeeetggeeggeeagagacaggggaet 80152

Query: 61 caggcggaatccaacctgagtagtaaattccagttttccagcaacaaggaacagaacgg 119

Sbjct: 80151 caggcggaatccaacctgagtagtaaattccagttttccagcaacaaggaacagaacgg 80093

<b>9</b> 5	COCTO ASSOCIATION CONTROL NO PRESENTACION CONTROL DE CO
PubMed	Nucleotide Protein Genome Structure PMC Taxonomy OMIM Bo
Search Nucl	eotide for Go Clear
Seatch	Limits Preview/Index History Clipboard Details
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□ 1: AC0926	508. Homo sapiens BAC[gi:15668121]
LOCUS DEFINITION ACCESSION VERSION KEYWORDS	AC092608 196952 bp DNA linear PRI 01-MAR-2002 Homo sapiens BAC clone RP11-154F14 from 4, complete sequence. AC092608 AC009582 AC092608.2 GI:15668121 HTG.
SOURCE	Homo sapiens (human)  Homo sapiens  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE AUTHORS TITLE JOURNAL MEDLINE	1 (bases 1 to 196952) Sulston, J.E. and Waterston, R. Toward a complete human genome sequence Genome Res. 8 (11), 1097-1108 (1998) 99063792
PUBMED REFERENCE AUTHORS TITLE JOURNAL REFERENCE AUTHORS	9847074 2 (bases 1 to 196952) Isak,A., Kozlowicz,A. and Hawkins,M. The sequence of Homo sapiens BAC clone RP11-154F14 Unpublished (2001) 3 (bases 1 to 196952) Waterston,R.H.
TITLE JOURNAL	Direct Submission Submitted (19-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE AUTHORS TITLE JOURNAL	4 (bases 1 to 196952) Waterston, R.H. Direct Submission Submitted (19-SEP-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE AUTHORS TITLE JOURNAL	5 (bases 1 to 196952) Waterston,R. Direct Submission Submitted (01-MAR-2002) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT	On Sep 19, 2001 this sequence version replaced gi:14916193.

XXCX :GCTC43641 MIMO Boo **PMC** Taxonomy Structure Protein Genome PubMed Gö Clear Search Nucleotide for Details History Clipboard Preview/Index Limits Get Subsequence File default Show: 20 Send to Display Links 1: AC093325. Homo sapiens BAC ...[gi:15982602] PRI 09-JAN-2002 linear 130754 bp DNA AC093325 LOCUS Homo sapiens BAC clone RP11-612J15 from 4, complete sequence. DEFINITION ACCESSION AC093325 AC093325.3 GI:15982602 VERSION KEYWORDS HTG. SOURCE Homo sapiens (human) Homo sapiens ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 130754) REFERENCE 1 Sulston, J.E. and Waterston, R. **AUTHORS** Toward a complete human genome sequence TITLE Genome Res. 8 (11), 1097-1108 (1998) **JOURNAL** 99063792 MEDLINE 9847074 PUBMED (bases 1 to 130754) REFERENCE Waligorski, J. and Haakenson, W. **AUTHORS** The sequence of Homo sapiens BAC clone RP11-612J15 TITLE Unpublished (2002) JOURNAL (bases 1 to 130754) REFERENCE Waterston, R.H. **AUTHORS** Direct Submission TITLE Submitted (18-AUG-2001) Genome Sequencing Center, Washington JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA (bases 1 to 130754) REFERENCE Waterston, R.H. **AUTHORS** Direct Submission TITLE Submitted (07-OCT-2001) Genome Sequencing Center, Washington JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA (bases 1 to 130754) REFERENCE **AUTHORS** Waterston, R. TITLE Direct Submission Submitted (09-JAN-2002) Department of Genetics, Washington JOURNAL University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA On Oct 7, 2001 this sequence version replaced gi: 15624997. COMMENT ----- Genome Center Center: Washington University Genome Sequencing Center Center code: WUGSC Web site: <a href="http://genome.wustl.edu/gsc">http://genome.wustl.edu/gsc</a> Contact: sapiens@watson.wustl.edu ----- Summary Statistics Center project name: H\_NH0612J15 NOTICE: This sequence may not represent the entire insert of this

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list\_uids=1598 3/5/2003